

**Place  
Student Label  
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## ROUND 1

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11

## ROUND 2

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1

*FINAL*

11

WRITE STUDENT NAME IN PENCIL ONLY

LEP○ MIG○ TIA○ NOD○ HML○ SPE○  
ACM○ ADM○ AAM○ GAT○

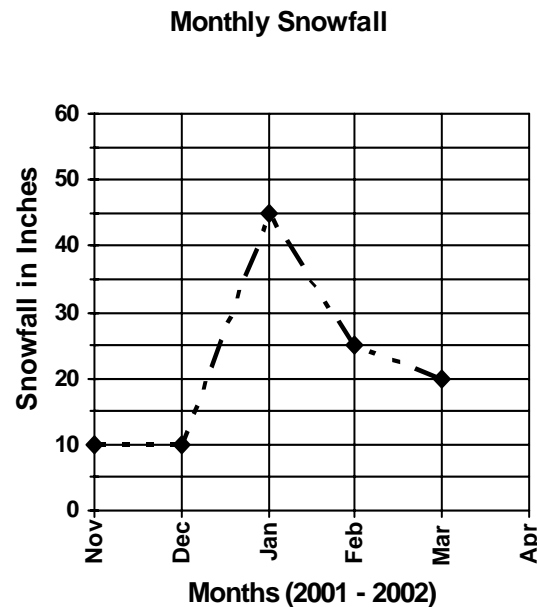
1. You are going to make a green salad to take to a dinner party. The prices of the ingredients are below.

<b>Lettuce</b>	<b>2 bunches cost</b>	<b>\$1.00</b>
<b>Radishes</b>	<b>3 bunches cost</b>	<b>\$0.92</b>
<b>Cucumbers</b>	<b>each</b>	<b>\$0.58</b>

- How much will it cost to make a salad with 4 bunches of lettuce, 3 bunches of radishes, and 2 cucumbers? *Show or explain how you found your answer.*
- How much change will you get back if you pay with a ten-dollar bill? *Show or explain how you found your answer.*
- There were a total of 12 people at the dinner party. If there is enough salad for each person to have a serving, how much will each serving cost? *Show or explain how you found your answer.*
- One of the guests took  $\frac{1}{9}$  of the salad. Another guest took  $\frac{2}{9}$  of the salad. What fraction of the salad was taken? *Show or explain how you found your answer.*

**Read problems 2, 3, 4, and 5 on this and the next two pages.**  
**Select three problems to answer. Answer ALL of the parts of the three problems you select to answer.**  
**Cross out the one problem that you do not choose to answer.**

- 2.** At Black Bear Mountain Ski Area the monthly snowfalls are shown in the following graph.



- Use the information in the graph to find the mean (average) snowfall for the 5 months shown. *Show or explain how you found your answer.*
- Use the information in the graph to find the median, mode, and range of the monthly snowfall. *Show or explain how you found your answer.*
- Using the information in the graph, predict the monthly snowfall for April and add it to the graph. *Justify (explain) your prediction.*

3. Sue is earning money for summer camp. She does chores for her neighbors and charges \$3.50 per hour.

- a. In the chart below **n** represents the number of hours she worked at each job. Complete the chart to show how much money she earned at each job. *Show or explain how you found your answer.*

	Hours	Earnings per Job
	<b>n</b>	$\$3.50 \times n = ?$
Job 1	3	
Job 2	2	
Job 3	1	
Job 4	4	
Job 5	4	
Job 6	3	

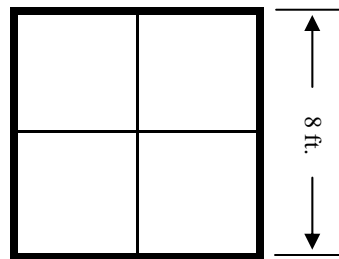
- b. What is the total amount Sue has earned for summer camp? *Show or explain how you found your answer.*
- c. Let **n** represent the number of hours Sue works. If the camp costs \$126.00, write an equation, **using n**, to show how many more hours she needs to work to pay for camp. Solve the equation. *Show or explain how you found your answer.*

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4. The Appaloosa Middle School basketball team practices each week on Monday, Tuesday, and Wednesday for 2 ½ hours after school.

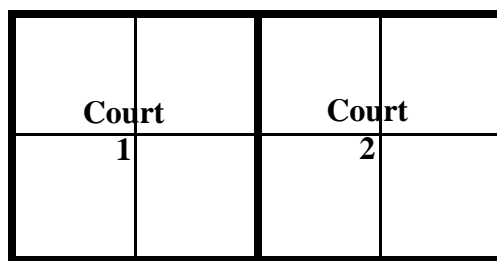
- a. If practice begins at 3:15 PM, what time does practice finish? *Show or explain how you found your answer.*
- b. What is the total time they practice each week? *Show or explain how you found your answer.*
- c. If students are required to practice for 10 hours before they may play in their first game, how many days will they have to practice before they qualify to play? *Show or explain how you found your answer.*

5. The side length of a four-square court measures 8 ft.

- a. What is the perimeter of the four-square court?  
*Show or explain how you found your answer.*



- b. What would be the perimeter of the rectangle formed by 2 four-square courts if they shared one side? *Show or explain how you found your answer.*



- c. What would be the area (in ft<sup>2</sup>)?  
*Show or explain how you found your answer?*

- d. If the play area measures 32 ft. x 24 ft., how many individual four-square courts can you fit into the area if they could share any number of sides? *Show or explain how you found your answer.*

